

WHAT IS CLAIMED IS:

1. An apparatus for influencing the travel properties of a material moving between a material supply source and a delivery location, the apparatus

5 comprising:

means forming a feed path along which material travels as the material is enroute from the material supply source to the delivery location, the feed path passing through an upstream passage and the feed path including one branch having a branch entry downstream of the upstream passage and another branch having a branch entry downstream of the upstream passage, the stream of material traveling through the upstream passage thereafter separating into at least two portions with one portion of the material entering the one branch through its branch entry and thereafter traveling along the one branch and another portion of the material entering the another branch through its branch entry and thereafter traveling along the another branch in a manner in which the another portion of the material and the one portion of the material are segregated from one another during their respective travel along the one branch and the another branch; and

20 a riffle distributor assembly movable along a lateral axis perpendicular to the reference axis such that the one portion of the material and the another portion of the material, prior to their respective segregated travel along the one branch and the another branch, are comprised in unseparated manner in the stream of material as it travels through the upstream passage and the portions of the material thereafter travel in segregated manner in their respective branches with the travel properties of the one portion of the material in the one branch being different than its travel properties before the movement of the one branch entry relative to the reference axis.

2. An apparatus according to claim 1 wherein the means for relatively moving includes means for axially moving the one branch entry relative to the upstream passage.

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3. An apparatus according to claim 1 wherein the means for relatively moving includes means for moving the one branch entry relative to the upstream passage along an adjustment axis extending perpendicularly to the reference axis.

10 4. An assembly for delivering pulverized solid fuel to a combustion vessel for combustion of the pulverized solid fuel thereat in a combustion process; comprising:

at least a pair of burners for injecting pulverized solid fuel into the combustion vessel;

15 an exhauster for effecting delivery of a single stream of pulverized solid fuel from a pulverizer to the pair of burners such that the pulverized solid fuel supplied from the pulverizer is apportioned between the pair of burners whereupon a respective portion of the pulverized solid fuel is injected through one of the burners at the same time that another respective
20 portion of the pulverized solid fuel is injected through the other one of the pair of burners; and

a riffle distributor assembly movable lateral for influencing a travel property of the pulverized solid fuel moving between the one pulverizer and the pair of burners so as to thereby change the apportionment of the
25 pulverized solid fuel injected through the pair of burners.